

Business Systems

Bachelor of Information Technology and Systems

This major is ideal for future entrepreneurs or managers who want expertise to provide effective business solutions.



The Business Systems major focuses on the use of computers and information systems to understand, model and solve complex problems in the world of business. You will learn about computers, networks and databases and how they can be harnessed to make business more effective. You will also learn how to use computers to aid the problem-solving process itself, and how to lead IT teams in developing and managing an organisation's systems.

Business Systems students can choose options that will develop strong business skills, deeper technical knowledge or a blend of both. Your preparation is highly relevant to the current business environment that integrates information technology into all aspects of business operations and management.

Some of the topics covered include information systems analysis and design, quantitative analysis, computer modelling of business decisions, electronic commerce systems, data mining and information systems management.

Optional topics include studies in studies in applications, data structures and algorithms and software engineering.

This major may be combined with the Applications Development and Networks major, to enhance your career opportunities. A double major is achieved in the same time as a single major, by substituting elective units for the core units of the second major.

Career information

Graduates can choose career paths in areas such as education, graphic design, publishing, marketing, business or the entertainment sector. Possible careers are:

- Systems analyst
- Information systems manager
- Business analyst
- e-Commerce consultant
- IT consultant
- Analyst programmer
- Database designer and administrator

Bachelor of Information Technology and Systems Business Systems major

Monash course code: 3334. CRICOS code: 054529J.

Course structure

First year

FIT1001 Computer systems – Introduces basic computer hardware and operating systems software with emphasis on the concepts required to understand the low-level and internal operations of computer systems.

FIT1002 Computer programming – Provides an overview of programming and its role in problem-solving and strategies for meeting user requirements and for designing solutions to programming problems.

FIT1003 IT in organisations – Provides the organisational and social context for the technical core units, and introduces students to the professional roles and responsibilities of IT practitioners.

FIT1004 Database – Introduces the principles and concepts of database systems, including planning, designing, using and implementing a data model using an enterprise-scale relational database system.

FIT1005 Networks and data communications – Introduces the fundamentals of distributed networked environments, and provides knowledge of internetworking standards and understanding of the networking architecture, technology and operation.

FIT1009 e-Commerce systems – Students learn about the internet mechanisms and infrastructures, business models and strategies used in internet commerce.

Two elective units – These are free choice level 1, 2 or 3 units which may be taken from within the Faculty of Information Technology or from any other faculty in the university.

*Degree name pending government approval.

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CRICOS provider: Monash University 00008C.
BITS-BS-07a

Second year

FIT2001 Systems analysis and design – Provides an overview of the main techniques used for carrying out analysis and specification of the design of a computer system, with a focus on the unified modelling language (UML).

FIT2002 IT project management – Provides both a theoretical and practical overview of processes involved in managing large projects, with particular emphasis on projects common to the IT industry.

FIT2005 Systems analysis and design 2 – Students learn about static and dynamic modelling, and component-based design, using unified modelling language (UML). This unit also examines common design patterns, system architecture and aspect-oriented analysis and design.

FIT2029 Web programming – Students learn about principles of commercial e-business and e-commerce programming using scripting and mark-up languages.

FIT2033 Computer models for business decisions – Examines the principles and practice of modelling and analysis of business systems as a support for the decision making activities. Topics include breakeven analysis, linear programming models, waiting lines systems and simulation, network problems, and forecasting techniques.

FIT3031 Information and network security – Students learn about common information risks and requirements, mechanisms and architectures to ensure information security over communication networks, and privacy and ethics issues.

TW1102 Business Statistics – Students Introduction to spreadsheeting, descriptive statistics, elementary probability, statistical inference, simple linear regression, forecasting

One elective unit – This is a free choice level 2 or 3 unit which may be taken from within the Faculty of Information Technology or from any other faculty in the university

Third year

FIT3047 and FIT3048 Industrial experience project – Students have the opportunity to experience working in a small project team and, under the direction of a supervisor, develop an information system in a network environment in response to a client's requirements.

FIT3002 Applications of data mining – Provides students with an understanding of the major components of the data mining process, the various methods and operations for data mining, knowledge of the real-world applications of data mining, and an understanding of the major research issues in this area.

FIT3019 Information systems management – Develops an understanding of the management issues surrounding information technology, the knowledge of management functions and responsibilities necessary for IT managers, and the understanding to apply IT management principles in the organisational environment.

FIT3021 Infrastructure for e-commerce – Examines the intricacies of the information technology infrastructure requirements necessary for effective, efficient and secure practice of electronic commerce.

One information technology level 3 unit – This unit must be taken from within the Faculty of Information Technology.

Two elective units – These are free choice level 2 or 3 units which may be taken from within the Faculty of Information Technology or from any other faculty in the University.

Find out more today!

Contact the Monash South Africa School of Information Technology:

Tel: +27 11 950 4030
email: sit@monash.ac.za